1/8

#### FIG. 1

# Flow for specifying SNP related to disease susceptibility or drug responsiveness

|                | disease susceptibility of drug responsive                                    | eness      |
|----------------|--|------------|
|                | Preliminary step 1: Determine a newly developed drug to be the object of SNP | S1         |
|                |  |            |
|                | Preliminary step 2: Collect samples to be analyzed                           | S2         |
|                |  |            |
|                | Step 1: Determine the 'scanning domain'                                      | <b>S</b> 3 |
| Narr           | Step 2: Determine 'typing' SNP   | S4         |
| Narrowing down | Step 3: Perform SNP typing<br>by a wet process                               | S5         |
| down           | Step 4: Analyze 'haplotypes' using the typing data                           | S6         |
|                | Step 5: Inspect the analysis data  | <b>S7</b>  |
|                |  |            |
|                | Step 6: Specify the 'target' SNP   | S8         |



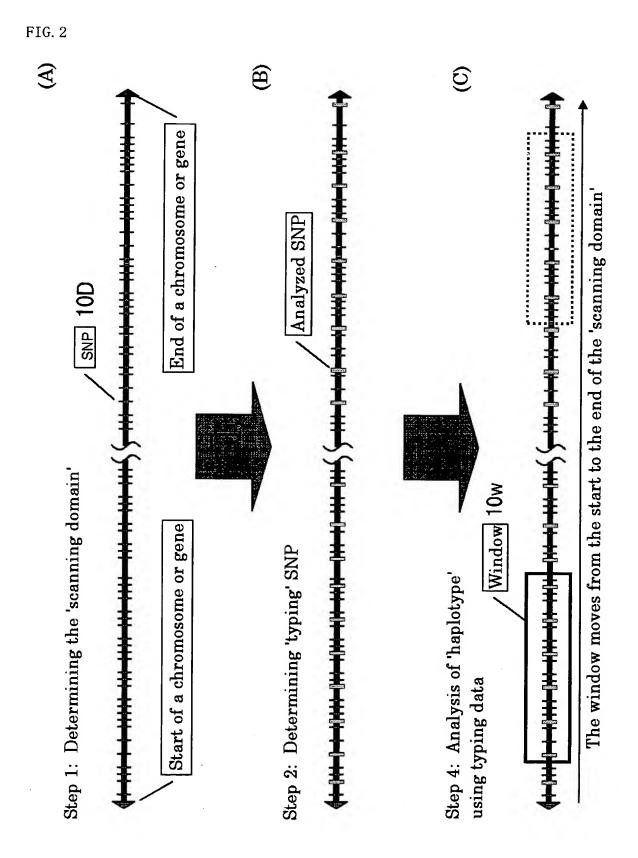


FIG. 3

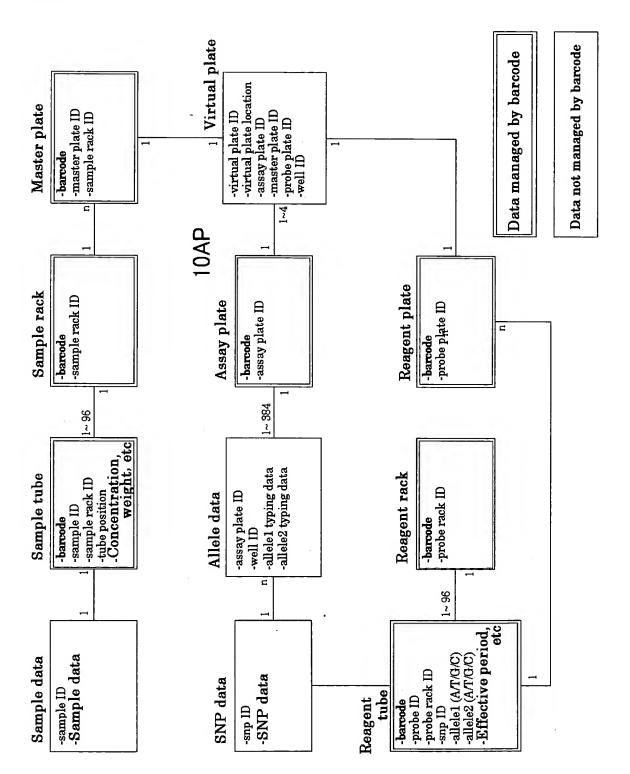


FIG. 4

| of 4 kinds of SNP for s   10PT   10PT | SNP arrangement on a 384-well assay plate      | 4 (F)                   | · O   | <u></u>                  | 1 (E)                   | 2 (1  | ± (8)                   | - ©                                      |  | ~ (N)         | × (0)               | $-1$ $\stackrel{\sim}{\sim}$ | 7  | × (1)   |
|--|--|-------------------------|---|--------------------------|-------------------------|---|-------------------------|--|--|---------------|---------------------|------------------------------|--|---|
| 4 kinds of SNP for shown in the color of SNP for shown in the color of SNP for the color of S | a oot-wen assay piate                          | $\sim$                  | (e)   | $\overline{\odot}$       | $\times$                | $\sim$  | $\simeq$                | $\sim$                                   | <u> </u>   | <b>(</b>      | $\sim$              | $\odot$                      |  |   |
| ** 4 kinds of SNP for shown in solutions and shown in solutions and shown in solutions are shown in solutio |  | $\prec$                 | <u>-</u> මල   | 9)( <u>4</u>             | $\asymp$                | $\asymp$  | ${\asymp}$              | <u>-</u> ე(ნ                             | $\mathbb{R}^{n}$   | <u>u)(4</u>   | 9) (4<br>-) (6)     | $\prec  \succ$               |  | (1)<br>(1)<br>(2)<br>(3)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4 |
|  | of 4 kinds of SNP for<br>4-well block shown in | $1 \approx 2$           | $\Theta$  | (A)                      | $\sim$ $>$              | $\sim$  | $(\times)$              | (-)                                      | (4)  | $\sim$        | $\odot$             | $\odot$                      |  |   |
|  |  | <\≍                     | )Ē  | <u> </u>                 | $\prec$                 | $\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$ | $\prec \succ$           | 9 (E                                     | $\prec \; \; \; \; \; \; \; \; \; \; \; \; \; \; \; \; \; \; \;$ |               | 96                  | 9 (e)<br>9 (c)               |  |   |
|  |  | $\simeq$                | (e)   | ( <del>a</del> )         | $\sim$                  | $\sim$  | $\simeq$                | (e)                                      | ( <del>Q</del> )   |               | )(၅)                | ) <del>(</del> 0)            | (O)<br>(O)<br>(O)<br>(O)   | $\odot$   |
|  |  | $\simeq$                | $ar{oldsymbol{ol}}}}}}}}}}}}}}}}}}}}}}$ | $\bigcirc$               | ベベ                      | $\simeq$  | $\asymp$                | ( <del>-</del> )( <u>-</u> )( <u>-</u> ) | $\Theta$   |               | <b>⊕</b> @          | (-)(0)<br>(4)(4)             | <b>6</b> €   | <u>@</u>  |
|  | #  | $\sim$                  | $\odot$   | (N)                      | $\sim$                  | $\simeq$  | $\sim$                  | $\Theta$                                 | (N)  |               | $\overline{\Theta}$ | (O)<br>(O)<br>(O)            | $\odot$  | $\odot$   |
|  | 12   | $\simeq$                | <u>©</u>  | $(\overline{\Phi})$      | $\asymp$                | $\simeq$  | $\asymp$                | ( <u>©</u>                               | <b>(9</b> )  | $\overline{}$ | (m)                 | 3                            | (O) (O) (O)  | $\widetilde{\Theta}$  |
|  | 13   | $\simeq$                | $\check{\odot}$   | (Z)                      | $\asymp$                | 9   | (S)                     | $\odot$                                  | (N)  | $\smile$      | $\overline{(-)}$    | 0                            | 000  | <u>@</u>  |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | 14   | =                       | <u>@</u>  | <b>(</b>                 | $\asymp$                | $\simeq$  | $\times$                | (e)                                      | <b>(</b>   | $\odot$       | (m)                 | ( <del>)</del>               | (O)  | <u>♥</u>  |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | 15   | $\overline{}$           | $\check{\odot}$   | $\overset{\circ}{\circ}$ | $\asymp$                | $\simeq$  | $\asymp$                | $\odot$                                  | <b>®</b>   | $\bigcirc$    |                     | <u>©</u>                     | 000  | <u>@</u>  |
|  | 16   | $\overline{}$           | <u>@</u>  | ( <del>a</del> )         | $\asymp$                | $\simeq$  | $\asymp$                | (e)                                      | <b>(P)</b>   | 6             | (m)                 | <u>\( \)</u>                 | (i) (ii) (iii) (ii | $\Theta$  |
|  | 21   | $\overline{}$           | Ŏ   | ( <b>7</b> )             | $\stackrel{\sim}{\sim}$ | $\simeq$  | $\stackrel{\sim}{\sim}$ | $\odot$                                  | <u>@</u>   | 9             | Á                   | <u>8</u>                     | )<br>(S)<br>(D)  | <u>(8)</u>  |
| 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 81   | $\simeq$                | <u></u>   | <b>♥</b>                 | $\asymp$                | $\simeq$  | $\asymp$                | (e)                                      | <b>(</b>   | (e)           | Á                   | <u></u>                      | ()<br>()<br>()<br>()<br>()   | $\widecheck{\odot}$   |
| 36 36 36 36 36 36 36 36 36 36 36 36 36 3   | 19   | $\simeq$                | Ŏ   | $\widetilde{\mathbf{c}}$ | $\asymp$                | $\simeq$  | $\asymp$                | $\odot$                                  | (N)  | $\bigcirc$    | ā                   | <u>(S)</u>                   | 00(0)  | <u>(3)</u>  |
| (1) (2) (3) (4) (5) (4) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7   | 20   | $\simeq$                | <u>დ</u>  | $\simeq$                 | $\asymp$                | $\simeq$  | $\simeq$                | (e)                                      | <u>(4)</u>   | 6             | ā                   | (a)                          | (S) (S) (S)  | $\widecheck{\bullet}$   |
| 36 36 36 36 36 36 36 36 36 36 36 36 36 3   | 21   | $\stackrel{\sim}{\sim}$ | Ŏ   | (Z)                      | $\asymp$                | $\simeq$  | $\overline{}$           | $\odot$                                  | (0)  | $\bigcirc$    | ā                   | <u>(</u> )                   | )O (O(   | <u>(S</u> )   |
| (12 (12 (12 (12 (12 (12 (12 (12 (12 (12  | 22   | $\asymp$                | <u>(10</u>  | $\simeq$                 | $\approx$               | $\simeq$  | $\asymp$                | (e)                                      | <u>a</u>   | <b>(</b>      | ā                   | <b>⊕</b>                     | (i)  | <u>₹</u>  |
| 3434343434   | 23   | =                       | $\equiv$  | $\simeq$                 | $\asymp$                | $\simeq$  | $\overline{}$           | $\Theta$                                 | (N)  | $\odot$       | Ā                   | <u>(0)</u>                   | (O)  | <u>@</u>  |
|  | 24   | =                       | =   | $\simeq$                 | $\simeq$                | $\simeq$  | _                       | (e)                                      | ◂  | (E)           | $\simeq$            | <u>(a)</u>                   | (e)  | <u>(a)</u>  |

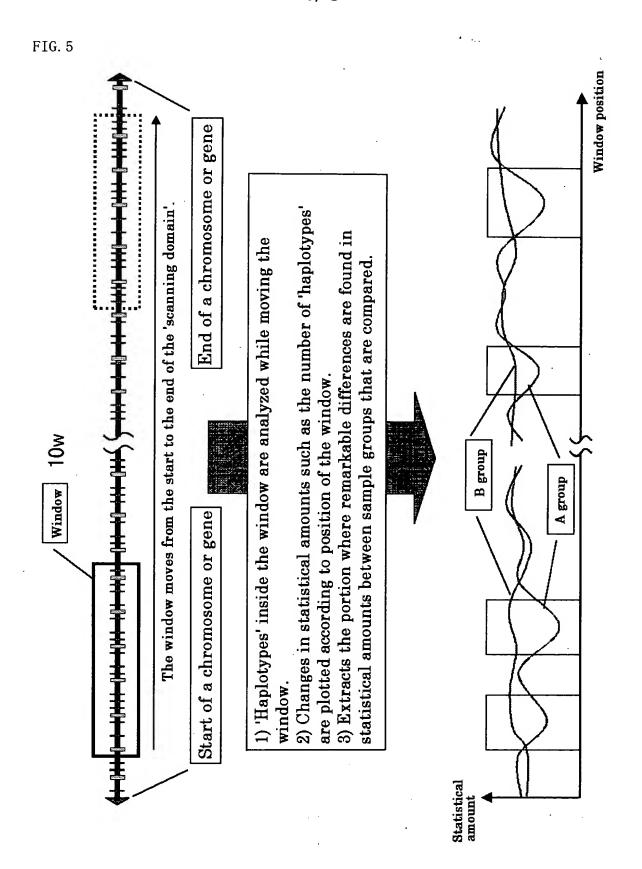


FIG. 6

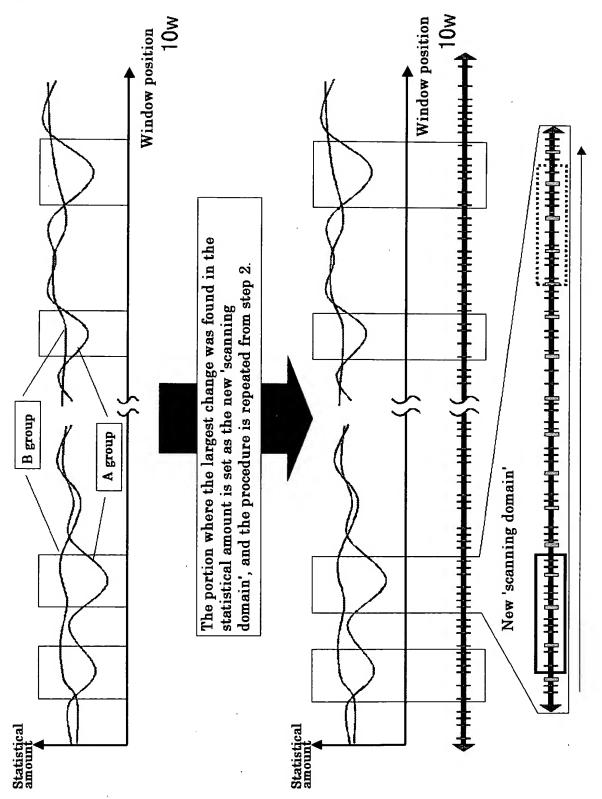
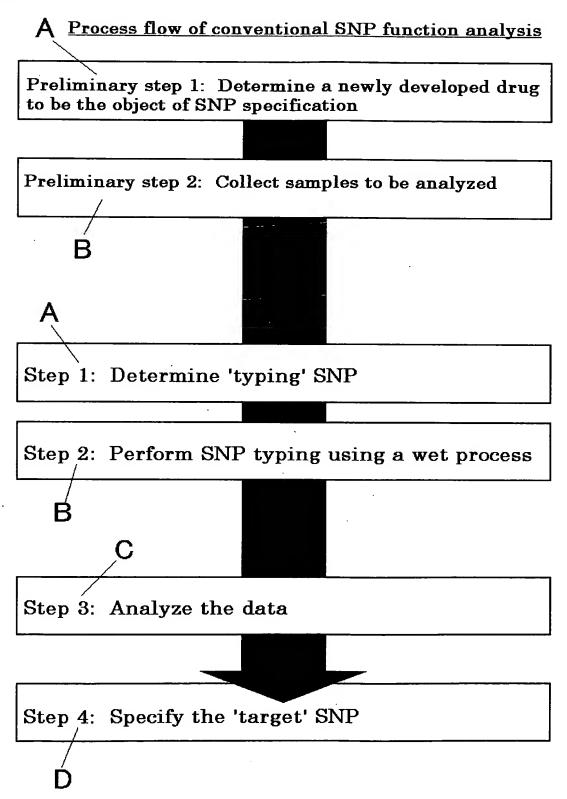


FIG. 7



#### Explanation of reference numbers

10AP Assay plate

10D SNP

10PT 4 divisions

10w Window

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